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Figure 2.2 Schematic diagram of the sample chamber.

Figure 2.3 A circuit of the pin photodiode.

Figure 2.4 Amplifier.

Figure 3.1 Variation of relative intensity of scattered laser light with age of the three pure gums emulsion.

Figure 3.2 Variation of relative intensity of scattered laser light with age of the pure *A.polyacantha*, *A. senegal* gums emulsions and their 1:1 blend.

Figure 3.3 Variation of relative intensity of scattered laser light with age of the pure *A.polyacantha*, *A. seyal* gums emulsions and their 1:1 blend.

Figure 3.4 Variation of relative intensity of scattered laser light with age of *A.polyacantha*, *A. senegal* emulsion blends.